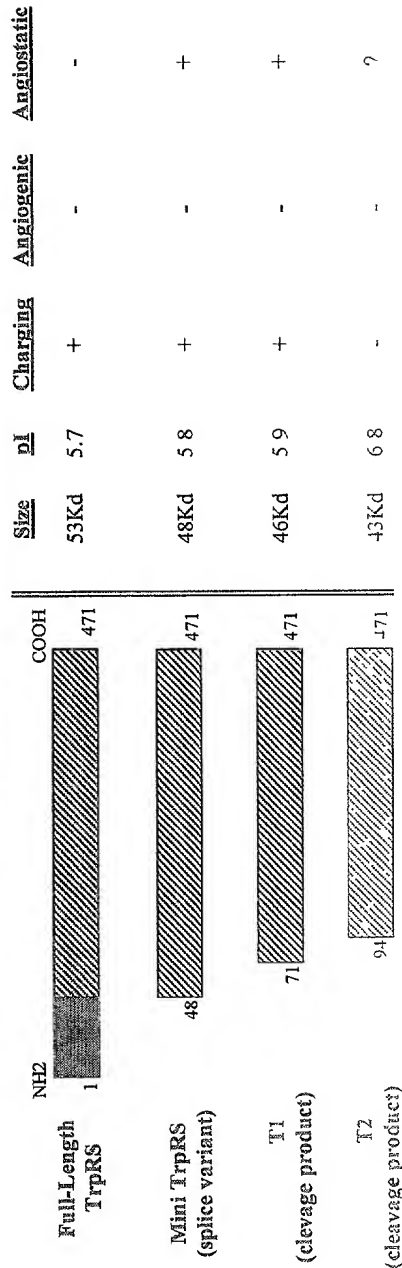


Human TrpRS Constructs Summary

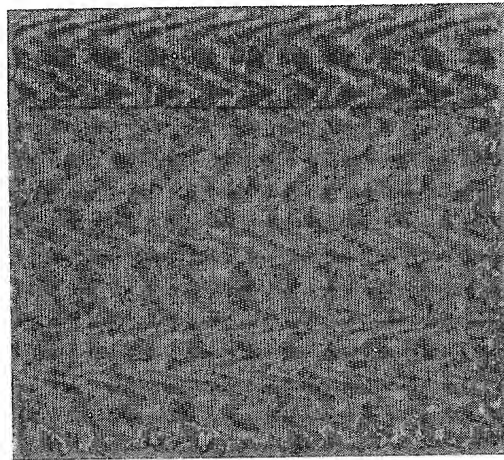
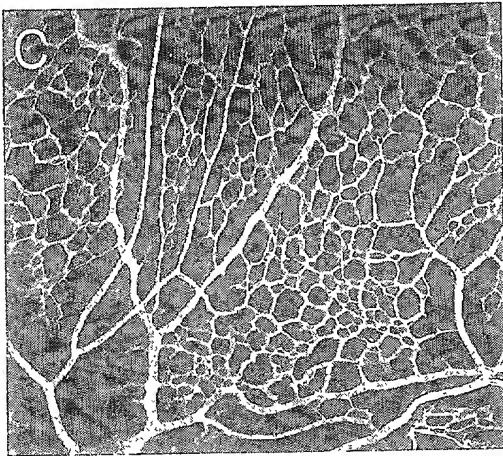
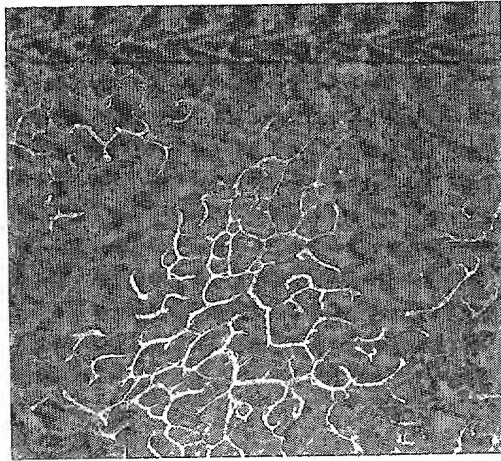
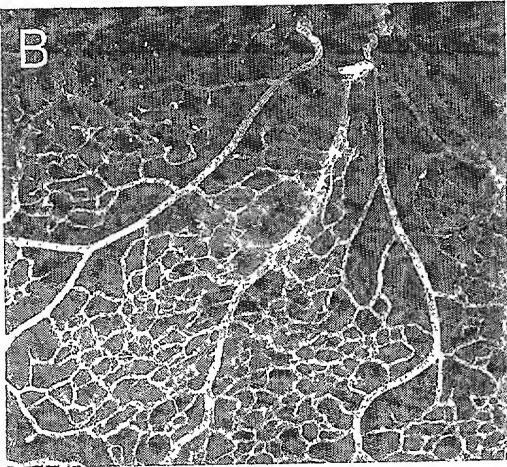
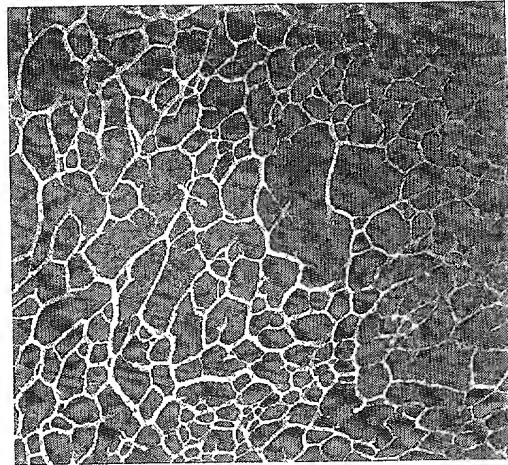
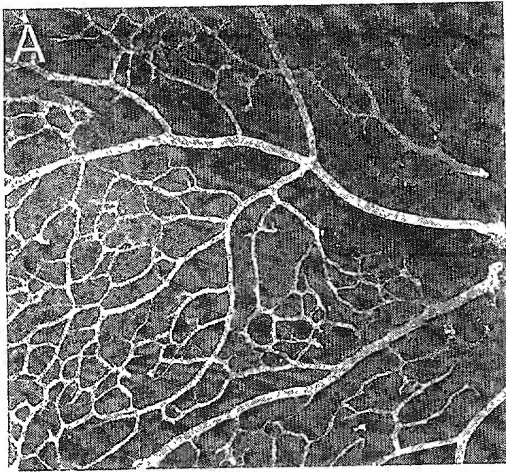


*Note: A mutant of each of the four proteins has been made in which DLT(205-207) is replaced with ELR

1 MPNSEPASLL ELFNSIATQG ELVRSILKAGN ASKDEIDSAV KMLVSLKMSY KAAAGEDYKA DCPFGNPAPT SNHGPDATKA
81 EEDFVDPWTV QTSSAKGIDY DKLIVRFSS KIDKELINRI ERATGQRPFH FLRRGIEFFSH RDMNQVLDAY ENKPFYLYT
161 GRGFSSEAMH VGHILPFIFT KWLQDVFNVP LVIQMTDDEK YLWKDLTLDQ AYGDVENAK DIIACGFEDIN KTFIFSDLDY
241 MGMTSGGFYKN VVKIQKHVTF NQVKGIFGFT DSDCIGKISF PAIQAAFSFS NSFPQIFRDR TDIQCLIPCA IDQDPYFRMT
321 RDVAPRIGYP KPALHSTFF PALQGAQTKM SASDPNSSIF LTDTAKQIKT KVNKHAFSGG RDTIEHRQF GGNCDDVDSF
401 MYLTFFLEDD DKLEQIRKDY TSGAMLTGEL KKALIEVLQP LIAEHQARRK EVTDEIVKEF MTRKLSFDF Q

*Note: All are recombinant constructs and have an N-terminal Met and a C-terminal KLAALAEHHHHH

FIGURE 1



Primary
Layer

Secondary
Layer

FIGURE 2

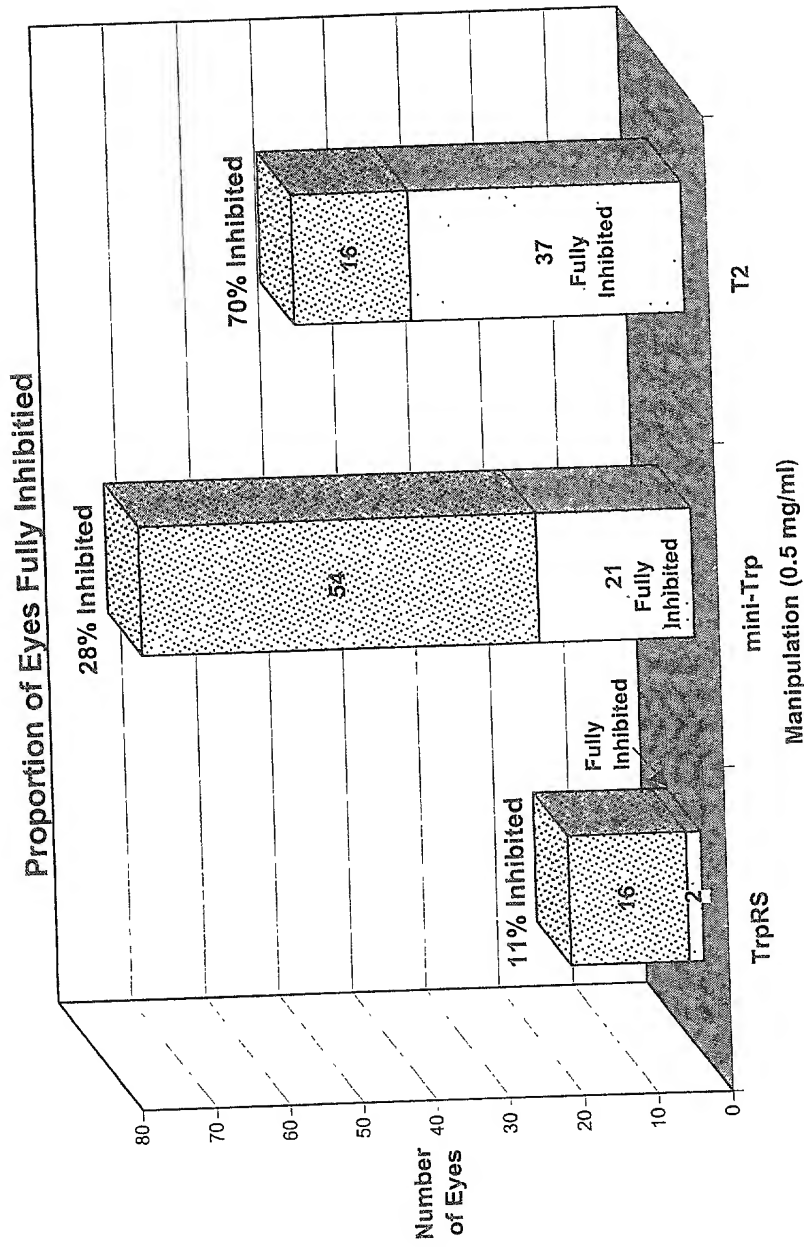


FIGURE 3

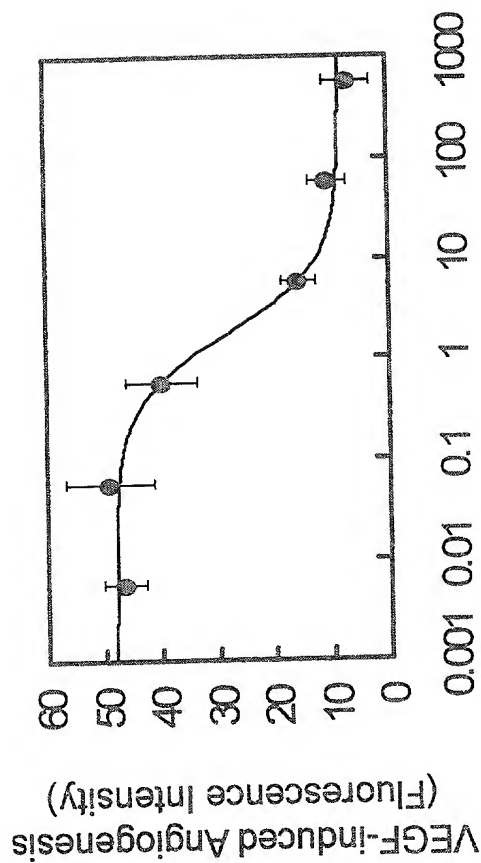


FIGURE 4

FIGURE 4

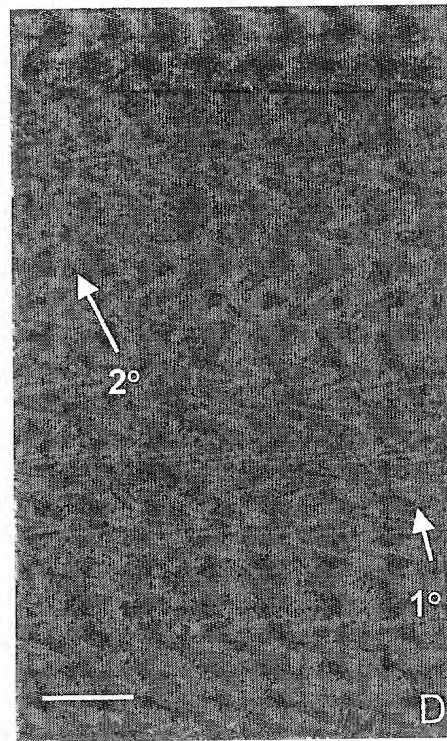
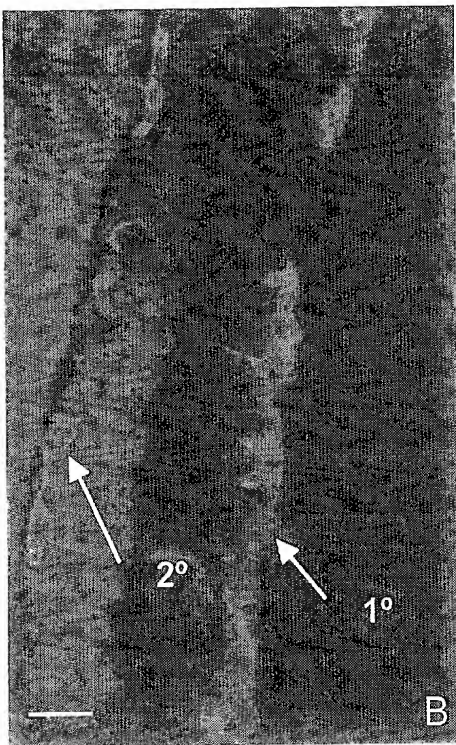
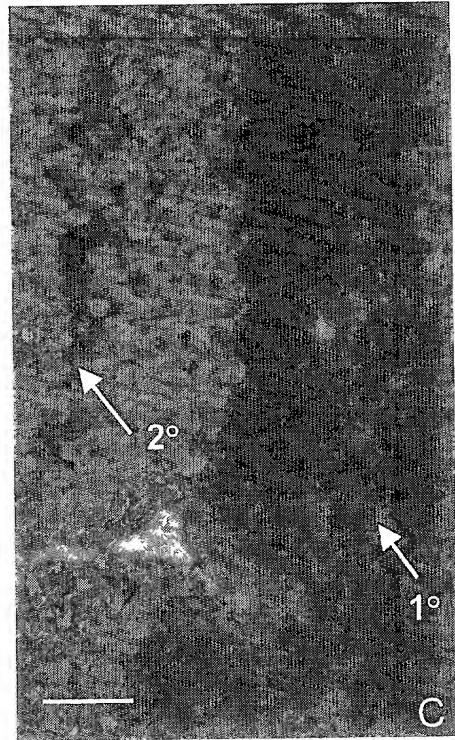
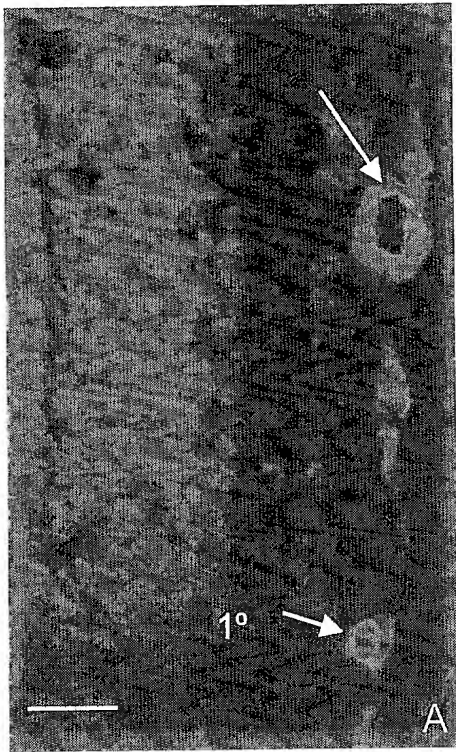


Figure 5